



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/686,343

10/14/2003

Ernie Brickell

042390.P15784

7197

45209

7590

12/23/2008

INTEL/BSTZ

BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP

1279 OAKMEAD PARKWAY

SUNNYVALE, CA 94085-4040

EXAMINER

TRUVAN, LEYNNA THANH

ART UNIT

PAPER NUMBER

2435

MAIL DATE

DELIVERY MODE

12/23/2008

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.



### **DETAILED ACTION**

1. Claims 1-2, 4-10, 12-18, and 20 are pending.

Claims 3, 11, and 19 are cancelled.

### ***Response to Arguments***

2. Applicant's arguments filed 9/15/08 have been fully considered but they are not persuasive.

Regarding the 112, 1<sup>st</sup> paragraph argument on pg.6: pointing to the specification (pg.6) proving the new subject matter is originally filed. The specification states the environment controls a token (master or delegate) if that environment is the only environment that is given access to that token. Thus, express the token can be master or it can be delegate token and not only to delegate. Specification discloses the token can be master or delegate that a user input the token into the environment and there is correspondence between environments and tokens. This implicitly discloses the token whether master or delegate can be inputted and communicated between environments. The token of delegated environment can be given as belonging to a particular environment that is acknowledged or authorized access in that environment. A master token can be a token that has overall or total access or authorization (full ownership functionality/capabilities) versus a delegate token that is more limited or partial as disclosed by specification on pg.7, lines 25-30. Nowhere does it limit that the delegate token is communicated but yet the master is not communicated. Thus, examiner does not agree with applicant argument (pg.7) that it is defined or even suggested that the master token would no longer be a master token if it was communicated to a delegated environment

and unclear what applicant means by the delegated environment no longer a delegated environment.

Regarding the 112, 1<sup>st</sup> paragraph argument on pg.7: Examiner finds applicant's reasoning and evidence of the master token is not communicated a contradiction. Innuendo, that the master token is not communicated because like applicant points out in the specification that an environment controls a token (master or delegate) if that environment is the only environment that is given access to that token and wouldn't be a master token if communicated to a delegated environment. Then, looking at the claimed reciting that "the delegate token is communicated to a delegated environment" and specification discloses correspondence between environments and tokens (master or delegate). Thus, the question arises as to how and why can a delegate token be communicated to a delegated environment if the statement in specification are defined (as noted on pg.7) as the token (master or delegate) not communicated since it's the only environment given access to that token. If that statement applies to a master token then it should apply to delegate token as well because the delegate token only have limited or partial ownership capabilities and that the token (as discussed above) can be the master or delegate. And if a delegate token have authority at one environment then the master can also have authority to the same environment since the master token as full ownership functionality. Thus, "an environment controls a token (master or delegate) if that environment is the only environment that is given access to that token" does not read on applicant's interpretation that the master token no longer a master token if communicated to a delegated environment because applicant have

Art Unit: 2435

not proven the master token only belonging to a particular environment without being transmitted or communicated.

It is noted that applicant asserted that written description requirement of 35 USC 112, para. 1 for each claim limitation must be expressly, implicitly or inherently supported in the original filed disclosure. It is also noted that applicant cited that “one ordinary skill in the art at the time would have understood that user input of a token to an environment is a form of communication of the token to the environment.” It is clear that this statement is expressly, implicitly or inherently supporting the claim “wherein the delegated environment is an environment to which the master token is not communicated.”

Regarding the 112, 1<sup>st</sup> paragraph argument on pg.8: that the master token being inputted by a user to a delegated environment would no longer be a delegated environment. Again, examiner finds this unsupported and not defined by the specification. The same reasoning in examiner’s response above applies to this argument.

Therefore, claims 1-2, 4-10, 12-18, and 20 remains rejected under 35 U.S.C. 112, first paragraph.

Regarding argument on pg.9: that Lambert does not expressly or inherently disclose the claimed wherein the delegated environment is an environment to which the master owner token is not communicated. Applicant argues that the lack of suggestion in Lambert is not an inherent and explicit disclosure. Claims 1-2, 4-10, 12-18, and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable by Lambert in view of Challenger. Like the master and delegate tokens as described in the specification (pg.6-7), Lambert suggests that the parent token (master token) is not communicated because focuses on the access and privileges for

restricted token that is able to be communicated for an execution environment in which it will run (col.4, lines 1-20) and the parent token having more rights and ability to modify restricted token (col.22, lines 32-50). Lambert also discusses returning a token to associate with a file to the software function where if a token is returned, it may be the parent token (unchanged) if no restricted execution environment is required by the rule or a restricted token that establishes a restricted execution environment/context for the processes of the software file (col.16, lines 9-24). While a lack of suggestion is not inherent or explicit but Lambert's tokens reads on the claimed invention based on information provided in the specification.

Regarding argument on pg.10: Challenger is relied on to disclose a Trusted Platform Module and that Lambert and Challenger combination does not disclose the delegated environment is an environment to which the master owner token is not communicated. As discussed above, Lambert reads on the master owner token is not communicated but Lambert did not include a TPM. Thus, Lambert is combined with Challenger where it would have been obvious for a person of ordinary skills in the art to teach of a trusted platform module (TPM) because using a security chip decrease the exposure to brute force attacks and enforces protection against hardware hammering (Challenger - col.3, lines 24-26 and col.4, lines 18-19).

### ***Claim Rejections - 35 USC § 112***

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Art Unit: 2435

4. Claims 1-2, 4-10, 12-18, and 20 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Claims 1, 9, and 17 recites wherein the delegated environment is an environment to which the master owner token is not communicated. This is new subject matter that was not originally filed nor supported by the specification. Specification discusses the delegate owner token being communicated and partial functionality that is unable to modify master owner token. Whereas, the master owner token have full owner functionality that have the ability to modify the MOT and the ME may generate the MOT when the ME is first executed by the computer system [0021 + 0023]. However, specification does not limit the claimed the delegated environment is an environment to which the master owner token is not communicated.

All dependent claims are also rejected by virtue of their pendency.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

**5. Claims 1-2, 4-10, 12-18, and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable by Lambert, et al. (US 7,134,138), in view of Challener, et al. (US 7,194,762).**

**As per claim 1:**

Lambert discloses a method of managing authorization tokens within a computer system comprising:

creating a master owner token indicating a management environment has full ownership *[of a trusted platform module]* within the computer system; (col.7, lines 55-57)

creating a delegate owner token for a delegated environment (col.8, lines 10-26 and 40-67 and col.22, lines 40- 45), wherein the delegated environment is an environment to which the master owner token is not communicated; (col.4, lines 6-17 and col.14, line 46 – col.15, line 20)

communicating the delegate owner token, to the delegated environment; and (col.9, lines 5-15 and col.22, lines 46-50)

allowing the delegated environment access *[to the trusted platform module]* when the delegated environment presents the delegate owner token to the *[trusted platform module]*. (col.3, line 66 - col.4, line 5 and col.11, lines 5-35)

Lambert discloses the claimed master owner token as the parent or normal access token that have the ownership or privileges that a restricted token does not. The claimed delegate owner token is given as a restricted token that have restricted access or privileges removed relative to its parent token (col.4, lines 5-15 and col.7, lines 54-57). Lambert explains the restricted token is derived from a parent token comprises a reduced subset of



access rights/privileges relative to its parent token by altering (lessening) the access rights (col.8, lines 40-67). Lambert discloses the restricted access token have restrictions which have certain rights or privileges to determine whether software can run and the executing environment in which it will run (col.3, line 66 - col.4, line 18). This shows the restricted token is associated with each process which is the claimed environment and enables restricting actions by possibly executable software content (col.9, lines 5-15 and col.11, lines 5-35). Lambert also discusses returning a token to associate with a file to the software function where if a token is returned, it may be the parent token (unchanged) if no restricted execution environment is required by the rule or a restricted token that establishes a restricted execution environment/context for the processes of the software file (col.16, lines 9-24). Thus, Lambert does not suggest the parent token is communicated to the delegated environment since the focus is the restricted token that is associated to a process/software. Hence, Lambert reads on the claimed creating a delegate owner token for a delegated environment wherein the delegated environment is an environment to which the master owner token is not communicated. However, Lambert did not include a TPM.

Challenger discloses a method and system for improved security password-based access to computer networks. The system comprises a server where the server comprises a security chip (col.2, lines 45-49). The invention comprises a security chip, such as a Trusted Platform Module (TPM) where a phrase is signed by the security chip using an encryption key assigned either to the remote user or the security chip (col.2, lines 16-18 and 28-32). The security chip comprises encryption keys, such as a public key/private key pair assigned to the chip (col.2, lines 51-53). Challenger discloses a remote user request access to the computer

network by providing an ID and password to the server (col.3, lines 4-7). The password is according to the remote user and for access to the server. Challenger discloses the system comprising a server (delegated environment) and the remote user password (delegate owner token) where the user's password is given to the server and to the security chip (TPM), rather than the master token being given to the server (col.4, lines 57-59). Further, Challenger teaches using a security chip further decreases the exposure to brute force attacks and such TPM allow only certain number of unsuccessful entries of a password before a user is locked (col.3, lines 24-26). So the user of the security chip enforces protection against hardware hammering (col.4, lines 15-19).

Therefore, it would have been obvious for a person of ordinary skills in the art to combine the teachings of Lambert with Challenger to teach of a trusted platform module (TPM) because using a security chip decrease the exposure to brute force attacks and enforces protection against hardware hammering (Challenger - col.3, lines 24-26 and col.4, lines 18-19).

As per claim 2: See Lambert on col.7, lines 26-55; discloses the method of claim 1, further comprising storing the master owner token in a secure storage within the computer system.

As per claim 3: Cancelled

As per claim 4: See Lambert on col.8, lines 10-26 and 40-67 and col.22, lines 40- 45; discloses the method of claim 1, wherein creating the delegate owner token comprises the management environment sealing the delegate owner token to the delegated environment.

As per claim 5: See Lambert on col.4, lines 5-15 and col.8, lines 40-67; discloses the method of claim 1, further comprising wherein the master owner token indicating the

management environment can change at least one of the master owner token and a delegate owner token.

As per claim 6: See Lambert on col.9, lines 5-15 and col.11, lines 5-35; discloses the method of claim 1, further comprising launching the management environment and then launching the delegated environment.

As per claim 7: See Lambert on col.9, lines 36-67; discloses the method of claim 1, further comprising storing the delegate owner token in an access control list in the resource.

As per claim 8: See Lambert on col.9, lines 36-67 and col.10, lines 20-33; discloses the method of claim 7, further comprising removing, by the management environment, the delegate owner token from the access control list and adding a different delegate owner token to the access control list.

**As per claim 9:**

Lambert discloses an article comprising:

a storage medium having a plurality of machine readable instructions, wherein when the instructions are executed by a processor, the instructions provide for managing authorization tokens within a computer system by creating a master owner token indicating an administrative environment has full ownership *[of a trusted platform module]* within the computer system; (col.6, lines 1-37 and col.7, lines 55-57)

creating a delegate owner token for a delegate environment (col.8, lines 10-26 and 40-67 and col.22, lines 40- 45), wherein the delegated environment is an environment to which the master owner token is not communicated; (col.4, lines 6-17 and col.14, line 46 – col.15, line 20)

communicating the delegate owner token to the delegated environment; and (col.9, lines 5-15 and col.22, lines 46-50)

allowing the delegated environment access *[to the trusted platform module]* when the delegated environment presents the delegate owner token *[to the trusted platform module]*. (col.3, line 66 - col.4, line 5 and col.11, lines 5-35)

Lambert discloses the claimed master owner token as the parent or normal access token that have the ownership or privileges that a restricted token does not. The claimed delegate owner token is given as a restricted token that have restricted access or privileges removed relative to its parent token (col.4, lines 5-15 and col.7, lines 54-57). Lambert explains the restricted token is derived from a parent token comprises a reduced subset of access rights/privileges relative to its parent token by altering (lessening) the access rights (col.8, lines 40-67). Lambert discloses the restricted access token have restrictions which have certain rights or privileges to determine whether software can run and the executing environment in which it will run (col.3, line 66 - col.4, line 18). This shows the restricted token is associated with each process which is the claimed environment and enables restricting actions by possibly executable software content (col.9, lines 5-15 and col.11, lines 5-35). Thus, Lambert does not suggest the parent token is communicated to the delegated environment since the focus is the restricted token that is associated to a process/software. Hence, Lambert reads on the claimed creating a delegate owner token for a delegated environment wherein the delegated environment is an environment to which the master owner token is not communicated. However, Lambert did not include a TPM.

Challener discloses a method and system for improved security password-based access to computer networks. The system comprises a server where the server comprises a security chip (col.2, lines 45-49). The invention comprises a security chip, such as a Trusted Platform Module (TPM) where a phrase is signed by the security chip using an encryption key assigned either to the remote user or the security chip (col.2, lines 16-18 and 28-32). The security chip comprises encryption keys, such as a public key/private key pair assigned to the chip (col.2, lines 51-53). Challener discloses a remote user request access to the computer network by providing an ID and password to the server (col.3, lines 4-7). The password is according to the remote user and for access to the server. Challener discloses the system comprising a server (delegated environment) and the remote user password (delegate owner token) where the user's password is given to the server and to the security chip (TPM), rather than the master token being given to the server (col.4, lines 57-59). Further, Challener teaches using a security chip further decreases the exposure to brute force attacks and such TPM allow only certain number of unsuccessful entries of a password before a user is locked (col.3, lines 24-26). So the user of the security chip enforces protection against hardware hammering (col.4, lines 15-19).

Therefore, it would have been obvious for a person of ordinary skills in the art to combine the teachings of Lambert with Challener to teach of a trusted platform module (TPM) because using a security chip decrease the exposure to brute force attacks and enforces protection against hardware hammering (Challener - col.3, lines 24-26 and col.4, lines 18-19). As per claim 10: See Lambert on col.7, lines 26-55; discloses the article of claim 9, further

comprising instructions for storing the master owner token in a secure storage within the computer system.

As per claim 11: Cancelled

As per claim 12: See Lambert on col.8, lines 10-26 and 40-67 and col.22, lines 40- 45; discloses the article of claim 9, wherein creating the delegate owner token comprises the administrative environment sealing the delegate owner token to the delegated environment.

As per claim 13: See Lambert on col.4, lines 5-15 and col.8, lines 40-67; discloses the article of claim 9, further comprising the master owner token indicating the administrative environment can change at least one of the master owner token and the delegate owner token.

As per claim 14: See Lambert on col.9, lines 5-15 and col.11, lines 5-35; discloses the article of claim 9, further comprising instructions for launching the administrative environment and then launching the delegated environment.

As per claim 15: See Lambert on col.9, lines 36-67; discloses the article of claim 9, further comprising instructions for storing the delegate owner token in an access control list in the resource.

As per claim 16: See Lambert on col.9, lines 36-67 and col.10, lines 20-33; discloses the article of claim 9, further comprising instructions for removing, by the administrative environment, the delegate owner token from the access control list and adding a different delegate owner token to the access control list.

**As per claim 17:**

Lambert discloses a computer system comprising:

a plurality of delegated environments; (col.4, lines 1-4 and col.15, line 61 - col.16, line 24)

a management environment to create a master owner token indicating the management environment has full ownership *[of a trusted platform module]* within the computer system (col.7, lines 55-57), to create a plurality of delegate owner tokens indicating partial ownership (col.8, lines 10-26 and 40-67 and col.22, lines 40- 45) *[of the trusted platform module]*, and to communicate a selected one of the plurality of delegate owner tokens to a selected one of the plurality of delegated environments (col.9, lines 5-15 and col.22, lines 46-50), wherein the selected one of the plurality of delegated environment is an environment to which the master owner token is not communicated; (col.4, lines 6-17 and col.14, line 46 – col.15, line 20)

wherein *[the trusted platform module]* stores delegate owner tokens created by the management environment and allows the selected one of the plurality of delegated environments access *[to the trusted platform module]* when the selected one of the plurality of delegate owner tokens is presented *[to the trusted platform module]* by the selected one of the plurality of delegated environments. (col.3, line 66 - col.4, line 5 and col.11, lines 5-35)

Lambert discloses the claimed master owner token as the parent or normal access token that have the ownership or privileges that a restricted token does not. The claimed delegate owner token is given as a restricted token that have restricted access or privileges removed relative to its parent token (col.4, lines 5-15 and col.7, lines 54-57). Lambert explains the restricted token is derived from a parent token comprises a reduced subset of access rights/privileges relative to its parent token by altering (lessening) the access rights

(col.8, lines 40-67). Lambert discloses the restricted access token have restrictions which have certain rights or privileges to determine whether software can run and the executing environment in which it will run (col.3, line 66 - col.4, line 18). This shows the restricted token is associated with each process which is the claimed environment and enables restricting actions by possibly executable software content (col.9, lines 5-15 and col.11, lines 5-35). Thus, Lambert does not suggest the parent token is communicated to the delegated environment since the focus is the restricted token that is associated to a process/software. Hence, Lambert reads on the claimed creating a delegate owner token for a delegated environment wherein the delegated environment is an environment to which the master owner token is not communicated. However, Lambert did not include a TPM.

Challenger discloses a method and system for improved security password-based access to computer networks. The system comprises a server where the server comprises a security chip (col.2, lines 45-49). The invention comprises a security chip, such as a Trusted Platform Module (TPM) where a phrase is signed by the security chip using an encryption key assigned either to the remote user or the security chip (col.2, lines 16-18 and 28-32). The security chip comprises encryption keys, such as a public key/private key pair assigned to the chip (col.2, lines 51-53). Challenger discloses a remote user request access to the computer network by providing an ID and password to the server (col.3, lines 4-7). The password is according to the remote user and for access to the server. Challenger discloses the system comprising a server (delegated environment) and the remote user password (delegate owner token) where the user's password is given to the server and to the security chip (TPM), rather than the master token being given to the server (col.4, lines 57-59). Further, Challenger



Art Unit: 2435

teaches using a security chip further decreases the exposure to brute force attacks and such TPM allow only certain number of unsuccessful entries of a password before a user is locked (col.3, lines 24-26). So the user of the security chip enforces protection against hardware hammering (col.4, lines 15-19).

Therefore, it would have been obvious for a person of ordinary skills in the art to combine the teachings of Lambert with Challenger to teach of a trusted platform module (TPM) because using a security chip decrease the exposure to brute force attacks and enforces protection against hardware hammering (Challener - col.3, lines 24-26 and col.4, lines 18-19). As per claim 18: See Lambert on col.7, lines 26-55; discloses a computer system of claim 17, further comprising a secure storage to store the master owner token.

As per claim 19: Cancelled

As per claim 20: See Lambert on col.9, lines 36-67 and col.10, lines 20-33; discloses the computer system of claim 19, wherein the trusted platform module comprises an access control list for storing the delegate owner tokens received from the management environment.

### ***Conclusion***

**6. THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until

Art Unit: 2435

after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leynna T. Truvan whose telephone number is (571) 272-3851. The examiner can normally be reached on Monday - Thursday (7:00 - 5:00PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on (571) 272-3859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/L. T. T./

Examiner, Art Unit 2435

/Kimyen Vu/

Supervisory Patent Examiner, Art Unit 2435